

FIG. 1A

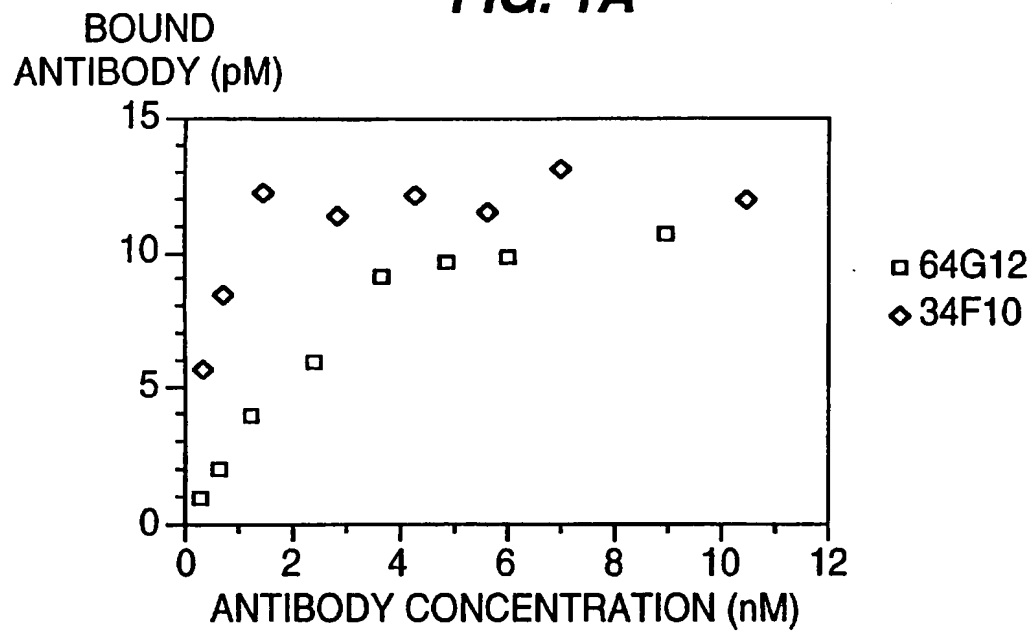


FIG. 1B

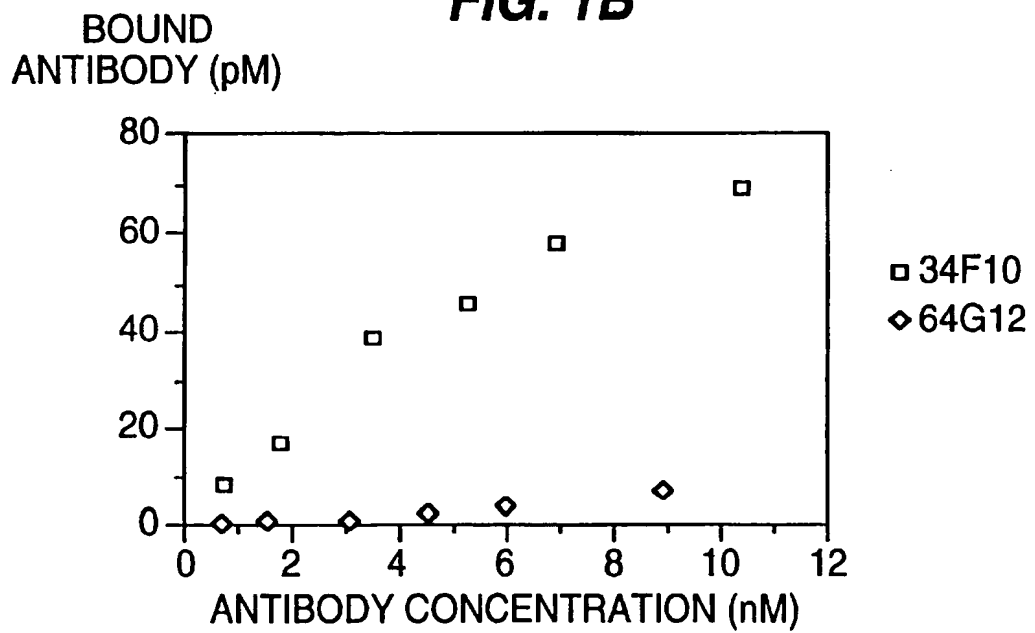


FIG. 2A

CTGCAGGGATCTGCGGGGCTCCAG

ATG ATG GTC GTC CTC CTC GGC GCG ACC CTA GTG CTC GTC GCC GTG GGC CCA
Met Met Val Val Leu Leu Gly Ala Thr Thr Leu Val Ala Val Gly Pro

TGG GTG TTG TCC GCA GCC GCA GGT GGA AAA AAT CTA AAA TCT CCT CAA AAA GTA
Trp Val Leu Ser Ala Ala Ala Gly Lys Asn Leu Lys Ser Pro Gln Lys Val

GAG GTC GAC ATC ATA GAT GAC AAC TTT ATC CTG AGG TGG AAC AGG AGC GAT GAG
Glu Val Asp Ile Ile Asp Asp Asn Phe Ile Leu Arg Trp Asn Arg Ser Asp Glu

TCT GTC GGG AAT GTG ACT TTT TCA TTC GAT TAT CAA AAA ACT GCG ATG GAT AAT
Ser Val Gly Asn Val Thr Phe Ser Phe Asp Tyr Gln Lys Thr Gly Met Asp Asn

TGG ATA AAA TTG TCT GCG TGT CAG AAT ATT ACT AGT ACC AAA TGC AAC TTT TCT
Trp Ile Lys Leu Ser Gly Cys Gln Asn Ile Thr Ser Thr Lys Cys Asn Phe Ser

TCA CTC AAG CTG AAT GTT TAT GAA GAA ATT AAA TTG CGT ATA AGA GCA GAA AAA
Ser Leu Lys Leu Asn Val Tyr Glu Glu Ile Lys Leu Arg Ile Arg Ala Glu Lys

GAA AAC ACT TCT TCA TGG TAT GAG GTT GAC TCA TTT ACA CCA TTT CGC AAA GCT
Glu Asn Thr Ser Ser Trp Tyr Glu Val Asp Ser Phe Thr Pro Phe Arg Lys Ala

CAG ATT GGT CCT CCA GAA GTA CAT TTA GAA GCT GAA GAT AAG GCA ATA GTG ATA
Gln Ile Gly Pro Pro Glu Val His Leu Glu Ala Glu Asp Lys Ala Ile Val Ile

FIG. 2B

CAC ATC TCT CCT CGA ACA AAA GAT AGT GTT ATG TGG GCT TTG GAT GGT TTA AGC
His Ile Ser Pro Gly Thr Lys Asp Ser Val Met Trp Ala Leu Asp Gly Leu Ser

TTT ACA TAT AGC TTA CTT ATC TGG AAA AAC TCT TCA GGT GTA GAA GAA AGG ATT
Phe Thr Tyr Ser Leu Leu Ile Trp Lys Asn Ser Ser Gly Val Glu Glu Arg Ile

GAA AAT ATT TAT TCC AGA CAT AAA ATT TAT AAA CTC TCA CCA GAG ACT ACT TAT
Glu Asn Ile Tyr Ser Arg His Lys Ile Tyr Lys Leu Ser Pro Glu Thr Thr Tyr

TGT CTA AAA GTT AAA GCA CCA CTA CTT ACG TCA TGG AAA ATT GGT GTC TAT AGT
Cys Leu Lys Val Lys Ala Ala Leu Leu Thr Ser Trp Lys Ile Gly Val Tyr Ser

CCA GTA CAT TGT ATA AAG ACC ACA CTA GTT GAA AAT GAA CTA CCT CCA CCA GAA AAT
Pro Val His Cys Ile Lys Thr Thr Val Glu Asn Glu Leu Pro Pro Pro Glu Asn

ATA GAA GTC AGT GTC CAA AAT CAG AAC TAT GTT CTT AAA TGG GAT TAT ACA TAT
Ile Glu Val Ser Val Gln Asn Gln Asn Tyr Val Leu Lys Trp Asp Tyr Thr Tyr

GCA AAC ATG ACC TTT CAA GTT CAG TGG CTC CAC GCC TTT TTA AAA AGG AAT CCT
Ala Asn Met Thr Phe Gln Val Gln Trp Leu His Ala Phe Leu Lys Arg Asn Pro

GGA AAC CAT TTG TAT AAA TGG AAA CAA ATA CCT GAC TGT GAA AAT GTC AAA ACT
Gly Asn His Leu Tyr Lys Trp Lys Gln Ile Pro Asp Cys Glu Asn Val Lys Thr

FIG. 2C

ACC CAG TGT GTC TTT CCT CAA AAC GTT TTC CAA AAA GGA ATT TAC CTT CTC CGC
Thr Gln Cys Val Phe Pro Gln Asn Val Phe Gln Lys Gly Ile Tyr Leu Leu Arg

GTA CAA GCA TCT GAT GGA AAT AAC ACA TCT TTT TGG TCT GAA GAG ATA AAG TTT
Val Gln Ala Ser Asp Gly Asn Asn Thr Ser Phe Trp Ser Glu Glu Ile Lys Phe

GAT ACT GAA ATA CAA GCT TTC CTA CTT CCT CCA GTC TTT AAC ATT AGA TCC CTT
Asp Thr Glu Ile Gln Ala Phe Leu Leu Pro Pro Val Phe Asn Ile Arg Ser Leu

AGT GAT TCA TTC CAT ATC TAT ATC GGT GCT CCA AAA CAG TCT GGA AAC ACG CCT
Ser Asp Ser Phe His Ile Tyr Ile Gly Ala Pro Lys Gln Ser Gly Asn Thr Pro

GTG ATC CAG GAT TAT CCA CTG ATT TAT GAA ATT ATT TTT TGG GAA AAC ACT TCA
Val Ile Gln Asp Tyr Pro Leu Ile Tyr Glu Ile Ile Phe Trp Glu Asn Thr Ser

AAT GCT GAG AGA AAA ATT ATC GAG AAA AAA ACT GAT GTT ACA GTT CCT AAT TTG
Asn Ala Glu Arg Lys Ile Ile Glu Lys Lys Thr Asp Val Thr Val Pro Asn Leu

FIG. 2D

AAA CCA CTG ACT GTA TAT TGT CTC AAA GCC AGA GCA CAC ACC ACC ATG GAT GAA AAG
Lys Pro Leu Thr Val Tyr Cys Val Lys Ala Arg Ala His Thr Met Asp Glu Lys

CTG AAT AAA ACC AGT GTT TTT AGT GAC GCT GTA TGT GAG AAA ACA AAA CCA CGA
Leu Asn Lys Ser Ser Val Phe Ser Asp Ala Val Cys Glu Lys Thr Lys Pro Gly

AAT ACC TCT AAA TGA GGT ACC
Asn Thr Ser Lys

FIG. 3A

CTGCAGGGGATCTGCGGGGCTCCGAG

ATG ATG GTC GTC CTC CTC GGC GCG ACC CTA GTG CTC GTC GCC GTG GGC CCA
Met Met Val Val Leu Leu Gly Ala Thr Thr Leu Val Ala Val Gly Pro

TGG GTG TTG TCC GCA GCC GCA GGT GGA AAA AAT CTA AAA TCT CCT CAA AAA GTA
Trp Val Leu Ser Ala Ala Ala Gly Gly Lys Asn Leu Lys Ser Pro Gln Lys Val

GAG GTC GAC ATC ATA GAT GAC AAC TTT ATC CTG AGG TCG AAC AGG AGC GAT GAG
Glu Val Asp Ile Ile Asp Asp Asn Phe Ile Leu Arg Trp Asn Arg Ser Asp Glu

TCT GTC GGG AAT GTG ACT TTT TCA TTC GAT TAT CAA AAA ACT GGG ATG GAT AAT
Ser Val Gly Asn Val Thr Phe Ser Phe Asp Tyr Gln Lys Thr Gly Met Asp Asn

TGG ATA AAA TTG TCT GGG TGT CAG AAT ATT ACT AGT ACC AAA TGC AAC TTT TCT
Trp Ile Lys Leu Ser Ser Gly Cys Gln Asn Ile Thr Ser Thr Lys Cys Asn Phe Ser

TCA CTC AAG CTG AAT GTT TAT GAA GAA ATT AAA TTG CGT ATA AGA GCA GAA AAA
Ser Leu Lys Leu Asn Val Tyr Glu Glu Ile Lys Leu Arg Ile Arg Ala Glu Lys

GAA AAC ACT TCT TCA TGG TAT GAG GTT GAC TCA TTT ACA CCA TTT CGC AAA GCT
Glu Asn Thr Ser Ser Trp Tyr Glu Val Asp Ser Phe Thr Pro Phe Arg Lys Ala

CAG ATT GGT CCT CCA GAA GTA CAT TTA GAA GCT GAA GAT AAG GCA ATA GTG ATA
Gln Ile Gly Pro Pro Glu Val His Leu Glu Ala Glu Asp Lys Ala Ile Val Ile

FIG. 3B

CAC ATC TCT CCT CGA ACA AAA GAT AGT GTT ATG TCG GCT TTG GAT GGT TTA AGC
His Ile Ser Pro Gly Thr Lys Asp Ser Val Met Trp Ala Leu Asp Gly Leu Ser

TTT ACA TAT AGC TTA CTT ATC TGG AAA AAC TCT TCA GGT GTA GAA GAA AGG ATT
Phe Thr Tyr Ser Leu Leu Ile Trp Lys Asn Ser Ser Gly Val Glu Glu Arg Ile

GAA AAT ATT TAT TCC AGA CAT AAA ATT TAT AAA CTC TCA CCA GAG ACT ACT TAT
Glu Asn Ile Tyr Ser Arg His Lys Lys Ile Tyr Lys Leu Ser Pro Glu Thr Thr Tyr

TGT CTA AAA GTT AAA GCA GCA CTA CTT ACG TCA TGG AAA ATT GGT GTC TAT AGT
Cys Leu Lys Val Lys Ala Ala Leu Leu Thr Ser Trp Lys Ile Gly Val Tyr Ser

CCA GTA CAT TGT ATA AAG ACC ACA GTT GAA AAT GAA CTA CCT CCA CCA GAA AAT
Pro Val His Cys Ile Lys Thr Thr Val Glu Asn Glu Leu Pro Pro Glu Asn

ATA GAA GTC AGT GTC CAA AAT CAG AAC TAT GTT CTT AAA TGG GAT TAT ACA TAT
Ile Glu Val Ser Val Gln Asn Gln Asn Tyr Val Leu Lys Trp Asp Tyr Thr Tyr

GCA AAC ATG ACC TTT CAA GTT CAG TGG CTC CAC GCC TTT TTA AAA AGG AAT CCT
Ala Asn Met Thr Phe Gln Val Gln Trp Leu His Ala Phe Leu Lys Arg Asn Pro

GGA AAC CAT TTG TAT AAA TGG AAA CAA ATA CCT GAC TGT GAA AAT GTC AAA ACT
Gly Asn His Leu Tyr Lys Trp Lys Gln Ile Pro Asp Cys Glu Asn Val Lys Thr

FIG. 3C

ACC CAG TGT GTC TTT CCT CAA AAC GTT TTC CAA AAA GGA ATT TAC CTT CTC CGC
Thr Gln Cys Val Phe Pro Gln Asn Val Phe Gln Lys Gly Ile Tyr Leu Leu Arg

GTA CAA GCA TCT GAT GGA AAT AAC ACA TCT TTT TCG TCT GAA GAG ATA AAG TTT
Val Gln Ala Ser Asp Gly Asn Asn Thr Ser Phe Trp Ser Glu Glu Ile Lys Phe

GAT ACT GAA ATA CAA GCT TTC CTA CTT CCT CCA GTC TTT AAC ATT AGA TCC CTT
Asp Thr Glu Ile Gln Ala Phe Leu Leu Pro Pro Val Phe Asn Ile Arg Ser Leu

AGT GAT TCA TTC CAT ATC TAT ATC GGT GCT CCA AAA CAC TCT GGA AAC ACG CCT
Ser Asp Ser Phe His Ile Tyr Ile Gly Ala Pro Lys Gln Ser Gly Asn Thr Pro

GTG ATC CAG GAT TAT CCA CTG ATT TAT GAA ATT ATT TTT TGG GAA AAC ACT TCA
Val Ile Gln Asp Tyr Pro Leu Ile Tyr Glu Ile Ile Phe Trp Glu Asn Thr Ser

AAT GCT GAG AGA AAA ATT ATC GAG AAA AAA ACT GAT GTT ACA GTT CCT AAT TTG
Asn Ala Glu Arg Lys Ile Ile Glu Lys Lys Thr Asp Val Thr Val Pro Asn Leu

AAA CCA CTG ACT GTA TAT TGT GTG AAA GCC AGA CCA CAC ACC ATG GAT GAA AAG
Lys Pro Leu Thr Val Tyr Cys Val Lys Ala Arg Ala His Thr Met Asp Glu Lys

CTG AAT AAA AGC AGT GTT TTT AGT GAC GCT GTA TGT GAG AAA ACA AAA CCA GGA
Leu Asn Lys Ser Ser Val Phe Ser Asp Ala Val Cys Glu Lys Thr Lys Pro Gly

FIG. 3D

AAT ACC TCT AAA ATT TGG CTT ATA GTT GGA ATT TGT ATT GCA TTA TTT GCT CTC
Asn Thr Ser Lys Ile Trp Leu Ile Val Gly Ile Cys Ile Ala Leu Phe Ala Leu
CCG TTT GTC ATT TAT GCT GCG AAA GTC TTC TTG AGA TGC ATC AAT TAT GTC TTC
Pro Phe Val Ile Tyr Ala Tyr Val Phe Leu Arg Cys Ile Asn Tyr Val Phe
TTT CCA TCA CTT AAA CCT TCT TCC AGT ATA GAT GAG TAT TTC TCT GAA CAG CCA
Phe Pro Ser Leu Lys Pro Ser Ser Ile Asp Glu Tyr Phe Ser Glu Gln Pro
TTG AAG AAT CTT CTG CTT TCA ACT TCT GAG GAA CAA ATC GAA AAA TGT TTC ATA
Leu Lys Asn Leu Leu Ser Thr Ser Glu Glu Gln Ile Glu Lys Cys Phe Ile
ATT GAA AAT ATA AGC ACA ATT GCT ACA GTA GAA GAA ACT AAT CAA ACT GAT GAA
Ile Glu Asn Ile Ser Thr Ile Ala Thr Val Glu Glu Thr Asn Gln Thr Asp Glu
GAT CAT AAA AAA TAC AGT TCC CAA ACT AGC CAA GAT TCA CGA AAT TAT TCT AAT
Asp His Lys Lys Tyr Ser Ser Gln Thr Ser Gln Asp Ser Gly Asn Tyr Ser Asn
GAA GAT GAA AGC GAA AGT AAA ACA AGT GAA GAA CTA CAG CAG GAC TTT GTA TGA
Glu Asp Glu Ser Glu Ser Lys Thr Ser Glu Glu Leu Gln Gln Asp Phe Val

CCAGAAATGAACTGTCTCAAGTATAAGGTTTTTTCAGCAGGAGTTACACTGGTACC